

The Institute for Advanced Technology
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Production Planning, Scheduling & Control

An introduction to the wide variety of techniques available to the production manager. Emphasis is placed on understanding of the area of application, the effort required for implementation and the benefits which can be gained therefrom. An overall framework is presented in which these techniques can be related to one another. Up-to-date references are given whenever possible to assist in applications work. Case studies are also presented. The approach of the systems analyst and designer to new problems is explained and illustrated. Many of the techniques discussed are mathematical but only the mathematics required to present the problem, outline the method, and clarify the results obtainable is included. Some familiarity with basic algebra is required for optimum benefits.

PLANNING PRODUCTION CAPACITY

■ Forecast requirements ■ setting target levels for inventory ■ planning in manufacturing groups ■ steps in planning ■ seasonal demand ■ make-to-order plants ■ simulation ■ heuristic programming ■ mathematical programming ■ using the plan.

CONTROLLING PRODUCTION CAPACITY

■ Symptoms of poor control ■ setting tolerance limits ■ alternative courses of action ■ management coefficients approach ■ decision rules ■ simulation ■ practical problems ■ case study.

PLANNING INPUT LOAD

■ Selecting orders ■ scheduling ■ choosing the period ■ backward and forward scheduling ■ line-balancing ■ matrix methods ■ machine loading ■ heuristic methods ■ linear programming.

CONTROLLING WORK IN PROCESS

■ Expediting ■ dispatching ■ performance measures ■ feedback ■ dynamic scheduling rules ■ jobshop simulation
■ Production control system design ■ information flow diagrams ■ management information systems.

DR. DONALD G. ELSON is a senior consultant in the Scientific and Professional Services Group of C-E-I-R. His industrial experience covers a wide area, including investment analysis, forecasting, inventory control, production planning and control and mathematical programming applications. However, his specialty is the computer simulation of business systems. Before joining C-E-I-R, Dr. Elson was a senior operations research analyst for the Philips Company in England where he was responsible for the development of advanced techniques in the production area. Dr. Elson has a B.S. degree in Physics and a Ph.D. in Electrical Engineering from London University.

HOTEL ACCOMMODATIONS: Seminars will be conducted at the hotels listed below. The hotels will hold a block of rooms for seminar participants until two weeks before the seminar. Costs of hotel rooms are not included in the tuition, however, reservations will be made by IAT upon registration for the seminar if requested. Please indicate accommodation requirements on the enclosed reply card.

■ November 21-22

SHERATON-SILVER SPRING
8727 Colesville Road
Silver Spring, Maryland 20910
Room Rates: Single \$13.00; Twin \$18.00

■ December 12-13

THE WALDORF-ASTORIA HOTEL
50th and Park Avenue
New York, New York 10022
Room Rates: Single \$22.00; Twin \$28.00

The Sheraton-Silver Spring is a mile from the Capital Beltway and is easily accessible to the entire metropolitan area and is serviced by direct limousine to Washington airports.

TUITION AND REGISTRATION: Tuition for each seminar, including course materials and luncheons, is \$175 for the first student and \$160 for each additional student from the same organization. Checks for tuition should be made payable to C-E-I-R, INC. Institute for Advanced Technology. Classes will begin at 9:00 a.m. and end at 5:00 p.m.

The right to cancel the seminar or to amend the syllabus is reserved.

Other Courses

The Institute for Advanced Technology covers many subjects in the fields of data processing and the management sciences. Many of these seminars are offered on a private, in-house basis. Fees will be quoted on request. Other seminars currently scheduled are:

- Microfilm Information Systems
October 14-16, New York
- Urban Planning — Process & Problems
October 17-18, New York
- Time-Sharing Systems
October 21-23, Washington D. C.
- Project Planning & Control Systems
for Data Processing
October 23-25, Washington, D. C.
- Statistics in Experimental Design
October 28-30, New York
- Management Information Systems
November 6-8, New York
- Optical Character Recognition
November 6-8, Washington, D. C.
- Data Communications Systems
November 13-15, New York
- Introduction to EDP for Managers
November 13-15, Philadelphia
- Techniques of Data Analysis
December 4-6, New York

For an outline of these courses, or to be placed on the mailing list for seminar announcements, write:

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